

especially 2, 2, 6, 6-tetramethylpiperidin-1-oxyl (TEMPO).

--21. (New) A process according to Claim 19, wherein the enzyme capable of oxidation is an oxidoreductase.

--22. (New) A process according to Claim 21, wherein the enzyme is a peroxidase, especially horse radish, soy-bean, lignin peroxidase or myelo- or lacto-peroxidase, and the oxidizing agent is hydrogen peroxide.

--23. (New) A process according to Claim 21, wherein the enzyme is a polyphenol oxidase or a laccase and the oxidizing agent is oxygen.

--24. (New) A process according to Claim 19, wherein the enzyme is a hydrolase, especially phytase or lipase, in the presence of a metal compound.

--25. (New) A process according to Claim 19, wherein the primary alcohol is comprised in a carbohydrate.

--26. (New) A process according to Claim 25, wherein the carbohydrate is an α -glucan or fructan or a derivative thereof.

--27. (New) A process according to Claim 25, wherein a carbonyl-containing carbohydrate containing at least 1 cyclic monosaccharide chain group carrying a carbaldehyde group per 25 monosaccharide units and per average molecule is produced.

--28. (New) A process according to Claim 25, wherein the carbohydrate is a hydroxyalkylated carbohydrate or a glycoside or a glyconic acid.

--29. (New) A process according to Claims 19, wherein the primary alcohol is comprised in a steroid compound.

--30. (New) A process according to Claim 19, wherein the primary alcohol is comprised in textile fibers.

Alcohol
--31. (New) An oxidized carbohydrate, the carbohydrate being selected from disaccharides, oligosaccharides and polysaccharides of the glucan, mannan, galactan, fructan, and chitin types and carbohydrate glycoside, containing at least 1 cyclic monosaccharide chain group carrying a carbaldehyde group per 25 monosaccharide units and per average molecule, or a chemical derivative thereof.

--32. (New) An oxidized carbohydrate according to Claim 31, containing at least 5 monosaccharide units per average molecule.

--33. (New) An oxidized carbohydrate according to Claim 31, which contains 1 to 50 cyclic monosaccharide chain group carrying a carbaldehyde group per 50 monosaccharide units and per average molecule.

--34. (New) A carbohydrate derivative according to Claim 31, in which derivative at least a part of the carbaldehyde groups has been converted to a group with the formula $-\text{CH}=\text{N}-\text{R}$ or $-\text{CH}_2-\text{NHR}$, wherein R is hydrogen, hydroxyl, amino, or a group R^1 , OR^1 or NHR^1 , in which R^1 is C_1-C_{20} alkyl, C_1-C_{20} acyl, a carbohydrate residue, or group coupled with or